

Claims

[c1] WHAT IS CLAIMED IS:

1. A single sheet collecting device for stacking sheets of paper or plastic material, the single sheet collecting device comprising:

at least one transport element transporting paper sheets in a transport direction;

at least one stop unit arranged in a transport path of the paper sheets in the transport direction;

at least one ramp device configured to lift the paper sheets during transport briefly out of a transport plane of the transport path;

at least one pressing device arranged in the transport path of the sheets between the at least one ramp member and the at least one stop unit, wherein the at least one pressing device presses the sheets of a stack against one another.

[c2] 2. The single sheet collecting device according to claim 1, wherein the at least one pressing device is formed by at least two pressing rollers positioned above one another.

[c3] 3. The single sheet collecting device according to claim

2, wherein a first one of the at least two pressing rollers is positioned above the transport plane and a second one of the at least two pressing rollers is positioned underneath the transport plane.

[c4] 4. The single sheet collecting device according to claim 3, wherein at least the first pressing roller has a groove for receiving the at least one transport element.

[c5] 5. The single sheet collecting device according to claim 4, wherein the at least one transport element is arranged recessed in the groove.

[c6] 6. The single sheet collecting device according to claim 4, wherein the groove has a depth that is greater than a diameter of the transport element embodied as a round belt.

[c7] 7. The single sheet collecting device according to claim 2, wherein the at least two pressing rollers are driven in opposite directions.

[c8] 8. The single sheet collecting device according to claim 2, wherein the pressing rollers are driven permanently.

[c9] 9. The single sheet collecting device according to claim 2, wherein a first one of the at least two pressing rollers is forced-loaded by a force.

- [c10] 10. The single sheet collecting device according to claim 9, wherein the force is a spring force.
- [c11] 11. The single sheet collecting device according to claim 9, wherein the force is adjustable.
- [c12] 12. The single sheet collecting device according to claim 9, wherein the force is smaller than static friction of the sheets within the stack of sheets.
- [c13] 13. The single sheet collecting device according to claim 2, wherein the at least two pressing rollers are identical.
- [c14] 14. The single sheet collecting device according to claim 2, wherein the at least two pressing rollers consist of a material having a minimal coefficient of friction.
- [c15] 15. The single sheet collecting device according to claim 14, wherein the material having a minimal coefficient of friction is steel.
- [c16] 16. The single sheet collecting device according to claim 2, further comprising one or more tensioning elements arranged in the transport direction upstream of the at least one pressing device.
- [c17] 17. The single sheet collecting device according to claim 16, wherein the at least one pressing device comprises at

least two pressing rollers, wherein the at least two pressing rollers each have one of the tensioning elements arranged thereat.

[c18] 18. The single sheet collecting device according to claim 16, wherein the one or more tensioning elements are tensioning rollers.

[c19] 19. The single sheet collecting device according to claim 18, wherein the at least one transport element is a transport belt guided about one of the at least two pressing rollers, respectively, wherein the tensioning rollers tension an upper strand or a lower strand of the transport belt.

[c20] 20. The single sheet collecting device according to claim 18, wherein the tensioning rollers have a smaller diameter than the at least two pressing rollers.

[c21] 21. The single sheet collecting device according to claim 1, wherein the at least one transport element is a transport belt.